

Patent Claims

1. A polyester film which has a base layer (B) and comprises at least one overlayer (A), wherein the base layer (B) comprises poly(m-xylenedipamide).
2. The polyester film as claimed in claim 1, wherein the base layer (B) comprises from 4 to 50% by weight of poly(m-xylenedipamide), based on the weight of the base layer (B).
3. The polyester film as claimed in claim 1, wherein not only the base layer (B) but also the overlayer (A) comprises poly(m-xylenedipamide).
4. The polyester film as claimed in claim 3, wherein the overlayer (A) comprises from 0.1 to 20% by weight of poly(m-xylenedipamide), based on the weight of the overlayer (A).
5. The polyester film as claimed in claim 1, wherein the melt viscosity of the poly(m-xylenedipamide) is smaller than 2000 poises.
6. The polyester film as claimed in claim 1, wherein the base layer (B) further comprises thermoplastic polyester, preferably at least 50% by weight thereof.
7. The polyester film as claimed in claim 6, wherein the thermoplastic polyester of the base layer (B) has at least one of either ethylene glycol units and terephthalic acid units, or ethylene glycol units and naphthalene-2,6-dicarboxylic acid units.
8. The polyester film as claimed in claim 6, wherein the polyester of the base layer (B) has isophthalic acid units, terephthalic acid units, and ethylene glycol units.
9. The polyester film as claimed in claim 6, wherein polyethylene terephthalate is

used as polyester of the base layer (B).

10. The polyester film as claimed in claim 1, which has an A-B-C layer structure, A and C being overlayers which may be identical or different.
11. The polyester film as claimed in claim 6, wherein the overlayers comprise the polyester used for the base layer (B).
12. The polyester film as claimed in claim 1, wherein the overlayer (A) has a gloss greater than 100.
13. The polyester film as claimed in claim 1, which has an oxygen transmission (OTR) smaller than $50 \text{ cm}^3 \cdot \text{m}^{-2} \cdot \text{d}^{-1} \cdot \text{bar}^{-1}$.
14. The polyester film as claimed in claim 1, which has an opacity smaller than 20%.
15. The polyester film as claimed in claim 1, wherein the overlayer (A) has an average roughness R_a smaller than 100 nm.
16. The polyester film as claimed in claim 1, wherein the overlayer (A) further comprises filler and the filler concentration in the overlayer (A) is from 0 to 0.5% by weight.
17. A process for producing a polyester film as claimed in claim 1, encompassing the steps of
 - a) producing a multilayer film by coextrusion and shaping the melts to give flat melt films
 - b) biaxial stretching of the film, and
 - c) heat-setting of the stretched film.

18. Packaging film comprising polyester film as claimed in claim 1.

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